

Translation

PATENT COOPERATION TREATY

PCT/KG2003/000001



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference U-SAM	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/KG2003/000001	International filing date (day/month/year) 24 March 2003 (24.03.2003)	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC F16H 21/16		
Applicant DON, Evgenny Alexeevich		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 01 November 2004 (01.11.2004)	Date of completion of this report 05 May 2005 (05.05.2005)
Name and mailing address of the IPEA/RU	Authorized officer
Facsimile No.	Telephone No.

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I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☐ the description:
 pages _____ . as originally filed
 pages _____ . filed with the demand
 pages _____ . filed with the letter of _____
- ☒ the claims:
 pages _____ . as originally filed
 pages _____ . as amended (together with any statement under Article 19
 pages _____ . filed with the demand
 pages _____ . filed with the letter of _____
- ☐ the drawings:
 pages _____ . as originally filed
 pages _____ . filed with the demand
 pages _____ . filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____ . as originally filed
 pages _____ . filed with the demand
 pages _____ . filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

- These elements were available or furnished to this Authority in the following language _____ which is:
- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

This report is drafted taking into account the arguments put forward by the applicant and the following documents cited in the search report:

D1: KRAINEV A. Mekhanika mashin, Fundamentalnyi slovar, Moscow, Mashinostroenie, 2000, page 267, KOVOCHNO-SHTAMPOVOCHNYI PRESS, diagram (a), (d)

D2: KRAINEV A. Mekhanika mashin, Fundamentalnyi slovar, Moscow, Mashinostroenie, 2000, page 204, ZAMYKANIE FORMY, diagram (b)

D3: EA 000482 B1

D4: EP 0799691 A2

The claimed balanced power axoid mechanism and axoid press are characterised in independent claims 1 and 7 and claims 2-6 and 8-10 which are respectively dependent thereon.

The prior art closest to the invention according to claim 1 is the balanced power mechanism known from D1 or D2, which constitutes a system of power links, all the end elements of which are combined into driving, driven and intermediary and supporting end (multi-end) elements combining the power links into a power circuit which balances the forces thereof.

The claimed invention according to claim 1 differs

from the invention known from D1 or D2 in that the balanced power mechanism is axoid, as each link of the system of power links contains at least one power axoid mechanism.

Therefore claim 1 and claims 2-6 which are dependent thereon meet the requirement of novelty.

The feature "axoid", contained in the generic concept "balanced power axoid mechanism" of the claimed invention, characterises the presence of power axoid mechanisms in the structure of a balanced power mechanism. Therefore a balanced power mechanism in which the power links are power axoid mechanisms will be a balanced power axoid mechanism.

A power axoid mechanism is known from D3. However, taking into account the arguments put forward by the applicant and information in the description to the effect that specifically driving and driven multi-end elements constitute the combination of end elements of specifically power axoid mechanisms, it has been established that, when links in the power axoid mechanisms known from D1 or D2 are replaced by links known from D3, a technical result is achieved which is distinct from the sum of the technical results of each thereof, i.e. it is not obvious that as a result of combining end elements, of specifically power axoid mechanisms into driving and driven multi-end elements, friction in them is decreased, there is a reduction in the number of guides for them, the normal reactions on the guides, and the dimensions of the multi-end elements.

Therefore, claim 1 and claims 2-6 which are dependent thereon meet the requirement of inventive step.

It should further be noted that in accordance with PCT Rule 33.1 (a), for the purposes of Article 15(2) (International Search) the relevant prior art shall consist of everything which has been made available to the

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public anywhere in the world by means of written disclosure, provided that the making available to the public occurred prior to the international filing date. Said Rule does not specify any other conditions or limitations. There was therefore justification for including document D3, specifically patent EA 000482, in the International Search Report.

The prior art closest to the invention according to claim 7 is the press known from D1, comprising a bed and a power mechanism, the power mechanism being balanced and constituting a system of power links, all the end elements of which are combined into driving, driven and supporting elements (multi-end) combining the power links into a power circuit which balances the forces thereof.

The invention according to claim 7 differs from the prior art known from D1 in that the press is axoid, as it comprises at least one balanced power axoid mechanism according to any one of claims 1-6.

Therefore claim 7 and claims 8-10 which are dependent thereon meet the requirement of novelty.

The examiner's arguments as to the compliance of claim 1 with the requirement of inventive step apply also to claim 7. Therefore claim 7, and claims 8-10 which are dependent thereon, meet the requirement of inventive step.

All the claims meet the requirement of industrial applicability.

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VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

The wording of claim 1 breaches the requirements of PCT Rule 6.2(a), according to which claims shall not rely, in respect of the technical features of the invention, on references to the description or drawings, as the reference in the limiting part of the claim is not to the technical features of the invention according to Eurasian patent № 000482 but only to the number thereof.

According to the description, the balanced power axoid mechanism can be implemented without intermediate and supporting multi-end elements, so that the feature in claim 1, "and if required intermediate and supporting", characterising restricted variants of the balanced power axoid mechanism, is not compulsory, and in the examiner's opinion can therefore be reflected in a dependent claim.